

Fax or email to Cardinal Scale Applications Engineering at cardinal@cardet.com or (417) 673-2153.

CONTACT: _____ PHONE: _____
 COMPANY: _____ FAX: _____
 ADDRESS: _____ EMAIL: _____
 _____ CITY: _____ STATE: _____ ZIP: _____

Please use a separate worksheet for each vessel. Vessel ID: _____

WEIGHING INFORMATION

1.	What is the system accuracy requirement?	_____ lbs
2.	What is the dead weight (DW) of the empty vessel?	_____ lbs
3.	What is the live load (LL) product weight?	_____ lbs
4.	What is the product to be weighed (liquid, solid, powder or slurry)?	
5.	What is the specific gravity of the product to be weighed?	

MECHANICAL CONSIDERATIONS

6.	How many vessel support points are there?	3 4 6 8 _____
7.	Is vessel supported on:	Legs Gussets Suspended _____
8.	Are rigid mechanical attachments flexibly coupled at all points?	Yes No

PERFORMANCE CONSIDERATIONS

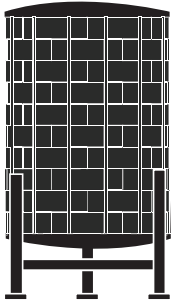
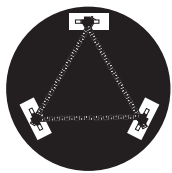
9.	Where is the vessel located?	Indoor Outdoor Jacketed Vessel
10.	If outdoors, what are the wind velocity requirements?	_____ MPH
11.	What is the expected load cell ambient temperature range?	Min ____°F; Max ____°F; Operating ____°F
12.	Is load evenly distributed to all supports?	Even Uneven
13.	Is vessel agitated (e.g. mixer, shaker)?	Yes No
14.	Is vessel in a washdown area?	Yes No Sanitary (CIP) Corrosive
15.	Are stainless steel load cells/weigh modules required?	Yes No Hermetic Sealing
16.	What is the vessel hazardous area classification?	N/A or Class ____ Div ____ Group ____

INSTRUMENTATION REQUIREMENTS				
17.	Type of Process Control Instrumentation (PCI) required?	Blind	Indicating	Wireless
18.	Type of transmitter signal interface?	Analog	Serial	Fieldbus Ethernet
19.	Where is transmitter located?	At Vessel	Control Room	_____
20.	Distance from load cells/weigh modules to instrumentation?	_____ Feet		
21.	What is the instrumentation hazardous area classification?	N/A or Class ____ Div ____ Group ____		
22.	What will the PCI be connected to?	PLC	DCS	PC Other _____
23.	Is an analog signal required?	No	4-20mA	0-20mA 0-10VDC Other _____
24.	Serial interface requirements?	None	RS-485	RS-422 RS-232 Other _____
25.	Communication protocol requirements?	ASCII	Modbus RTU	DeviceNet Profibus Ethernet IP Modbus TCP/IP
26.	Is setpoint control required by the PCI?	Yes	No	
27.	Is remote indication required? (e.g. scoreboard display)	Yes	No	

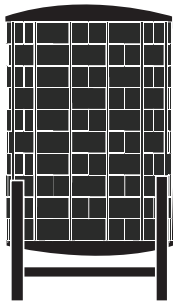
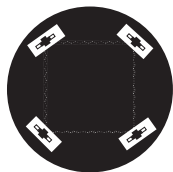
LOAD CELL/FORCE TRANSDUCER WORKSHEET

ADDITIONAL INFORMATION

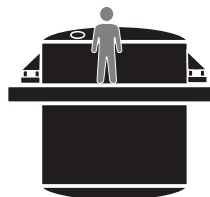
Tell us about any other aspects of your application that need to be considered. We offer solutions for virtually any situation. We would be delighted to discuss the proper solution for your application. What type of vessel do you have? (Check One)



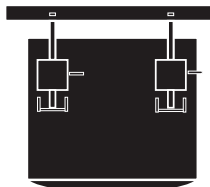
3-Point Tank



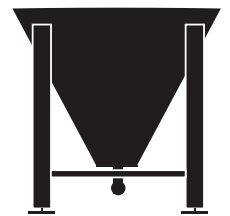
4-Point Tank



Mezzanine Tank



Suspended Tank



Hopper



Horizontal Tank

Make notes here that you think will help us better understand your needs: